

RECEIVED
CENTRAL FAX CENTER

NOV 28 2005

AMENDMENTS

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An assembly of beam splitters, comprising:
 - a roof-prism, comprising a first emitting/receiving surface, a roof surface and a first reflecting surface, when a beam of first wavelength enters the roof-prism through the first emitting/receiving surface, the beam of first wavelength is sequentially reflected by the first reflecting surface, the roof surface and the first emitting/receiving surface and leaves the roof-prism from the first reflecting surface;
 - a triangle prism, comprising a second emitting/receiving surface, a second reflecting surface and a total internal reflecting surface, wherein the beam of first wavelength from the roof-prism enters the triangle prism through the total internal reflecting surface, and is sequentially reflected by the second reflecting surface and the total internal reflecting surface and leaves the triangle prism from the second emitting/receiving surface; and
 - a complementary prism, which is adjacent to the second reflecting surface of the triangle prism, and comprises a third emitting/receiving surface and a fourth emitting/receiving surface;

wherein a beam of second wavelength enters the complementary prism through the third emitting/receiving surface and passes the second reflecting surface to enter the triangle prism, and then the beam of second wavelength is emitted from the second emitting/receiving surface of the triangle prism by reflecting by the total internal reflecting surface, so that the optical axis of the beam of second wavelength and the optical axis of the beam of first wavelength are coaxial; and wherein a beam of third wavelength enters the complementary prism through the fourth emitting/receiving surface and passes the second reflecting surface to enter the triangle prism, and then the beam of third wavelength passes the first reflecting surface to enter the roof-prism and is sequentially reflected by the first emitting/receiving surface, the roof surface and the first reflecting surface so as to emit from the first emitting/receiving surface of the roof-prism, so that the optical axis of the beam of third wavelength and the optical axis of the beam of first wavelength are coaxial.

2. (Original) The assembly of beam splitters as claimed in claim 1, wherein the beam of first wavelength is reflected by the second reflecting surface, and the beam of second wavelength and the beam of third wavelength travel through the second reflecting surface

3. (Original) The assembly of beam splitters as claimed in claim 1, wherein the second emitting/receiving surface and the total internal reflecting surface form a 48° included angle, the second emitting/receiving surface and the second reflecting surface form a 108° included angle, the second reflecting surface and the total internal reflecting surface form a 24° included angle,

the third emitting/receiving surface and the fourth emitting/receiving surface form a 132° included angle, the fourth emitting/receiving surface form a 132° included angle, and the third emitting/receiving surface and the second reflecting surface form a 24° included angle.

4. (Original) The assembly of beam splitters as claimed in claim 1, wherein the beam of second wavelength enters the second emitting/receiving surface of the triangle prism and is reflected to the complementary prism by the total internal reflecting surface, so as to emit from the third emitting/receiving surface of the complementary prism;

and the beam of third wavelength passes the first emitting/receiving surface and is sequentially reflected by the first reflecting surface, the roof surface and the first emitting/receiving surface, and then the beam of third wavelength travels through the triangle prism to enter the complementary prism, so that the beam of third wavelength is emitted from the fourth emitting/receiving surface.

5. (Original) An assembly of beam, comprising:

a triangle prism comprising a second emitting/receiving surface, a second reflecting surface and a total internal reflecting surface, wherein a beam of first wavelength enters the triangle prism through the second emitting/receiving surface and is sequentially reflected by the total internal reflecting surface and the second reflecting surface, so as to emit from the total internal reflecting surface;

a roof-prism comprising a first emitting/receiving surface, a roof surface and a first reflecting surface, wherein the beam of first wavelength from the triangle prism enters the roof-prism through the first reflecting surface, and is sequentially

reflected by the first emitting/receiving surface, the roof surface and the first reflecting surface, so as to emit from the first emitting/receiving surface; and a complementary prism, which is adjacent to the second reflecting, and comprises a third emitting/receiving surface and a fourth emitting/receiving surface; wherein a beam of second wavelength enters the complementary prism through the third emitting/receiving surface and passes the second reflecting surface to enter the triangle prism, the beam of second wavelength is reflected by the total internal reflecting surface and emitted from the second emitting/receiving surface of the triangle prism, so that the optical axis of the beam of second wavelength and the optical axis of the beam of first wavelength are coaxial; and wherein a beam of third wavelength enters the complementary prism through the fourth emitting/receiving surface and passes the second reflecting surface to enter the triangle prism, the beam of third wavelength passes the first reflecting surface to enter the roof-prism and is sequentially reflected by the first emitting/receiving surface, the roof surface and the total internal reflecting surface and emitted from the first emitting/receiving surface of roof-prism, so that the optical axis of the beam of third wavelength and the optical axis of the beam of first wavelength are coaxial.

6. (Original) The assembly of beam splitters as claimed in claim 5, wherein the beam of first wavelength is reflected by the second reflecting surface, and the beam of second wavelength and the beam of third wavelength passes through the second reflecting surface.

7. (Original) The assembly of beam splitters as claimed in claim 5, wherein the second emitting/receiving surface and the total internal reflecting surface form a 48° included angle, the second emitting/receiving surface and the second reflecting surface form a 108° included angle, the second reflecting surface and the total internal reflecting surface form a 24° included angle, the third emitting/receiving surface and the fourth emitting/receiving surface form a 132° included angle, the fourth emitting/receiving surface and the second emitting/receiving surface form a 132° included angle, and the third emitting/receiving surface and the second reflecting surface form a 24° included angle.

8. (Original) The assembly of beam splitters as claimed in claim 5, wherein the beam of second wavelength enters the triangle prism through the second emitting/receiving surface and is reflected to the complementary prism by the total internal reflecting surface, so as to emit from the third emitting/receiving surface of the complementary prism; and

the beam of third wavelength enters the roof-prism through the first emitting/receiving surface and is sequentially reflected by the first reflecting surface, the roof surface and the first emitting/receiving surface, and then the beam of third wavelength travels through the triangle prism to enter the complementary prism, so that the beam of third wavelength is emitted from the fourth emitting/receiving surface.

9. – 20. Canceled.